

12465

18.5.60 YAMA

**6,8-DIMERCAPTO-OCTANOIC ACID**

Jap. 8814/64, cig. (Non-Con.) 18.5.60 (Jap.) as 35704/60.

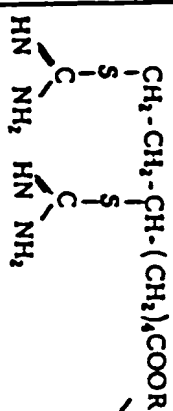
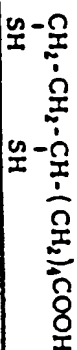
Pub. 28.5.64. Yamanouchi Pharm. Co., Ltd.

**NEW**

The following process and cmpds. of the general formula (I)



(I)

 $\xrightarrow{\text{H}_2\text{O}}$ 

where R=lower alkyl.

(II)

**USES**

(II) is intermediate for prep. of medicines (e.g. a-lipoic acid).

**EXAMPLE**

An aqueous solution of 6-oxy- $\Delta^7$ -octenolic acid ethyl ester (200 g.), thiourea (81.4 g.) and 50% hydriodic acid (220 ml.) was refluxed for 10 hrs., the soln. made alkaline with 25% NaOH and refluxed for 40 mins. The mixture was made acid with conc. hydrochloric acid, extracted with ether, dried, the ether evap. and product distilled to give 6,8-dimercapto-octanoic acid (9.5 g.) b.p. 130°/0.007 mm to 150°/0.05 mm.